

The use of Statistics for the Control of Analytical Methods in Accredited Laboratories

**National Measurement & Regulation Office, Teddington
20 October 2015**

Chairman –Jeff Llewellyn, BMTA President and Chief Executive

A BMTA Seminar presented in conjunction with CSols

Speakers at this event will discuss the use of Statistics for the Control of Analytical Methods in Accredited Laboratories. Topics will include UKAS include the proposed redrafting of ISO 17025 and the implementation of ISO 15189 which affects medical laboratories. Discussions will also cover the need for a consistent audit approach across sites and across the water, environmental, food and medical sectors. Presentations will include understanding measurement uncertainty, key statistical tools that can be used in method validation, controlling your AQC/IQC charts and AQC/IQC exceptions management and reporting. Coupled with talks by speakers from the water/environmental and medical laboratories this promises to be both an interesting and informative meeting to attend.

09.30 Registration & Coffee

10.00 Chairman's Introduction – Programme for the Day

10.10 UKAS Presentation

Jon Murthy, Marketing Manager, UKAS

Jon will give an overview of latest developments at UKAS including the proposed redrafting of ISO 17025 and the implementation of ISO 15189 which affects medical laboratories. He will also discuss the need for a consistent audit approach across sites and across the water, environmental, food and medical sectors. Finally, the presentation will consider what UKAS observe goes wrong and the corrections required to maintain the control of analytical methods in accredited laboratories.

10.40 Understanding Measurement Uncertainty

David Galsworthy, Animal & Plant Health Agency (APHA)

Measurement Uncertainty - What is it? Why do we need it? How do we use it? A brief outline of the reasons for (and benefits of) determining the uncertainty in our day-to-day measurements and UKAS expectations on establishing uncertainty budgets.

11.10 Coffee Break

11.30 Use of Statistics for Control of Analytical Methods in Accredited Laboratories

Water Industry Focus

12.00 Demonstrating the fitness for purpose of Analytical Methods – a Practical guide for Laboratories

Vicki Barwick, Head of Commercial Training, Science & Innovation, LGC Ltd

Statistics play an important role in the validation of analytical methods. This presentation will outline some of the key statistical tools that can be used in method validation, as described in the 2nd edition of the Eurachem Guide 'The Fitness for Purpose of Analytical Methods – A Laboratory Guide to Method Validation and Related Topics'.



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12.30 Lunch & Networking

13.30 Does Proficiency Testing Improve Laboratory Performance?

Tracey Noblett, Head of Microbiology, LGC Ltd

The presentation will look at how proficiency testing works, the meaning of PT performance scores, and discuss how PT can be used to monitor and improve laboratory performance.

14.00 Controlling your AQC/IQC charts

Claire Parker, Implementation Manager, CSols

A laboratory has many rules and procedures to follow to ensure that their Stewart / Levey Jennings charts stay in control. Using software can help laboratories interpret their charts, record and track investigations and standardise the limit review procedure, including the F & T tests.

14.30 Brief Tea Break

14.40 External Quality Assessment for Clinical Trace Element Laboratories

Chris Harrington, Principal Healthcare Scientist, Surrey Pathology Services.

External Quality Assessment (EQA) is the cornerstone of quality assurance and method validation in clinical testing laboratories in the UK, ensuring that the results of patient investigations are reliable and comparable wherever they are produced. In this talk we focus specifically on EQA (ISO 17043:2010) for laboratories performing trace element measurements, although many of the points are applicable to the wider pathology areas.

15.10 Method Validation using Six Sigma

Craig Webster, Consultant Clinical Scientist at Birmingham Heartlands Hospital, Heart of England NHS Trust

Six Sigma is a disciplined, data-driven approach and methodology for eliminating defects in any process. It is a valuable tool for the development and validation of new assays and services in the laboratory. It can guide the use and development of appropriate quality control systems in addition to the appropriate use of laboratory resources.

15.40 Final Discussion

16.00 Close

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The organisers reserve the right to amend the programme if necessary

Booking Form – 20 October 2015 - Teddington

Use of Statistics for the Control of Analytical Methods in Accredited Laboratories



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<input type="checkbox"/>	Tick here if you would like to be sent information about the hotel rates for the night of 19 October at the Park Hotel, Teddington.
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Names of attendees:	
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Please note that payment is due on confirmation of this booking and must be made in advance of the event. No refunds will be made for cancellations although delegate substitutions are accepted.

Return this form to BMTA:

BMTA, for the attention of Carol Smith	E-mail to: enquiries@bmta.co.uk
East Malling Enterprise Centre	Fax to: 01732 897453
New Road, East Malling, Kent ME19 6BJ	Telephone enquiries to: 01732 897452

With effect from 1.9.15 online bookings can be made on the BMTA website – www.bmta.co.uk

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BMTA – promoting measurement and testing – speaking with one voice to Government, UKAS and the European Laboratory Community